PRODUCT INFORMATION PACKET

Model No: QCA1323A1121GAA001 Catalog No: QCA1323A1121GAA001 TerraMAX® Cast Iron Motor, 175 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 315L Frame, TEFC



Regal and Marathon are trademarks of Regal Rexnord Corporation or one of its affiliated companies. ©2022 Regal Rexnord Corporation, All Rights Reserved. MC017097E



marathon[®] Motors



Product Information Packet: Model No: QCA1323A1121GAA001, Catalog No:QCA1323A1121GAA001 TerraMAX® Cast Iron Motor, 175 HP, 3 Ph, 50 Hz, 400 V, 1000 RPM, 315L Frame, TEFC

marathon®

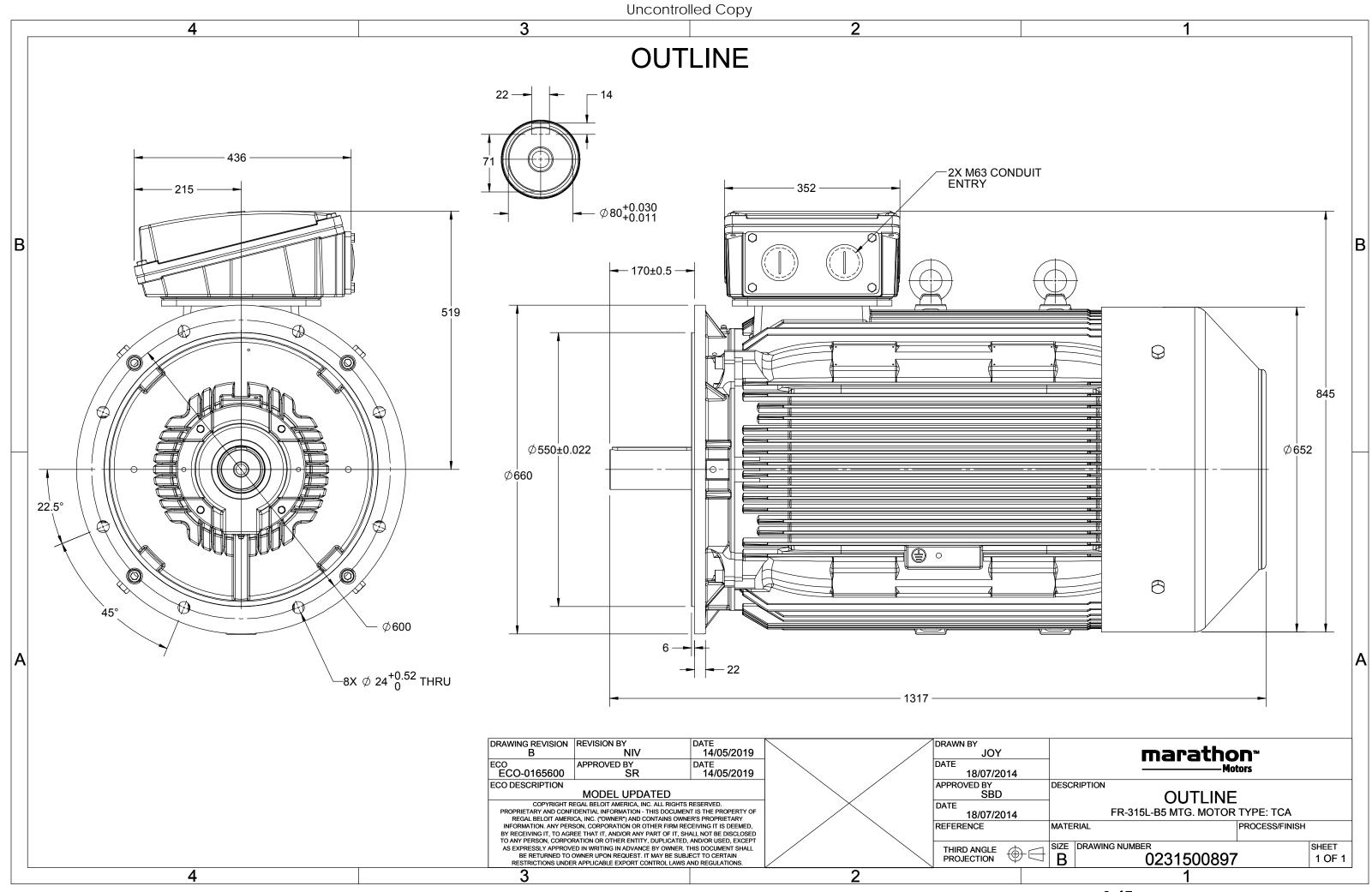
Nameplate Specifications

Output HP	175 Hp	Output KW	132.0 kW
Frequency	50 Hz	Voltage	400 V
Current	248.8 A	Speed	992 rpm
Service Factor	1	Phase	3
Efficiency	96 %	Power Factor	0.8
Duty	S1	Insulation Class	F
Frame	315L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6319	Opp Drive End Bearing Size	6319
Drive End Bearing Size	6319 No	Opp Drive End Bearing Size CSA	6319 No
-			

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	Rotation	Bi-Directional
Mounting	B5	Motor Orientation	Horizontal
Drive End Bearing	C3	Opp Drive End Bearing	СЗ
Frame Material	Cast Iron	Shaft Type	Keyed
Overall Length	1317 mm	Frame Length	840 mm
Shaft Diameter	80 mm	Shaft Extension	170 mm
Assembly/Box Mounting	Тор		
Connection Drawing	8442000085	Outline Drawing	0231500897

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created: 12/01/2022



3 of 7





TerraMAX[®]

Model No. QCA1323A1121GAA001

U	Δ / Y	f	Р	Р		n	т	IE		% FFF	at load	h	PF	at lo	ad	I _A /I _N	T _A /T _N	T _K /T _N
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class		FL	3/4FL	 1/2FL	FL	3/4FL		[pu]	[pu]	[pu]
400	Δ	50	132	175	248.8	992	1256.03	IE4	-	96	96	95	0.8	0.75	0.63	6.6	2.4	2.8
					004											IP 55		
Motor	type				QCA				Deg	gree of	protectio	on				IP 55		
Enclos	ure				TEFC				Mo	unting	type					IM B5		
Frame	Material	I			Cast Iro	on			Coc	oling m	ethod					IC 411		
Frame	size				315L				Мо	tor we	ght - app	orox.				1188		kg
Duty					S1				Gro	ss wei	ght - appi	rox.				1233		kg

Duty			dioss weight approx.		
Voltage variation *	± 10%		Motor inertia	6.5064	
Frequency variation *	± 5%		Load inertia	Customer to Provide	
Combined variation *	10%		Vibration level	2.8	1
Design	N		Noise level (1meter distance from moto	or) 66	
Service factor	1.0		No. of starts hot/cold/Equally spread	2/3/4	
Insulation class	F		Starting method	DOL	
Ambient temperature	-20 to +40	°C	Type of coupling	Direct	
Temperature rise (by resistan	ce) 80 [Class B]	К	LR withstand time (hot/cold)	15/30	
Altitude above sea level	1000	meter	Direction of rotation	Bi-directional	
Hazardous area classification	NA		Standard rotation	Clockwise form DE	
Zone classification	NA		Paint shade	RAL 5014	
Gas group	NA		Accessories		
Temperature class	NA		Accessory - 1	PTC 150°C	
Rotor type	Aluminum Die cast		Accessory - 2	-	
Bearing type	Anti-friction ball		Accessory - 3	-	
DE / NDE bearing	6319 C3 / 6319 C3		Terminal box position	TOP	
Lubrication method	Regreasable		Maximum cable size/conduit size	1R x 3C x 240mm²/2 x M63 x 1	.5
Type of grease	CHEVRON SRI-2 or Equivalent		Auxiliary terminal box	NA	

 I_A/I_N - Locked Rotor Current / Rated Current

 $T_{\rm A}/T_{\rm N}$ - Locked Rotor Torque / Rated Torque

T_K/T_N - Breakdown Torque / Rated Torque

NOTE

All performance values at rated voltage and frequency.

All performance parameters are subjected to standard tolerance as per IEC 60034-1

* Voltage, Frequency and combined variation are as per IEC60034-1

Technical dat	ta are subject to chang	ge. There may be slight	variations between calculate	d values in this datasheet an	d the motor nan	neplate figures.
Efficiency	Europe	China	India	Aus/Nz	Brazil	Global IEC
Standards	IEC 60034-30-1	-	-	AS/NZ 1359:5:2004	-	IEC 60034-30-1

kgm²

mm/s

dB(A)

S

marathon®

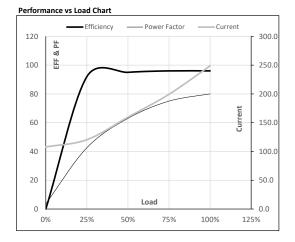


Model No. QCA1323A1121GAA001

Enclosure	U	Δ / Y	f	Р	Р	I	n	Т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	132	175	248.8	992	128.08	1256.03	IE4	40	S1	1000	6.5064	1188

Motor Load Data

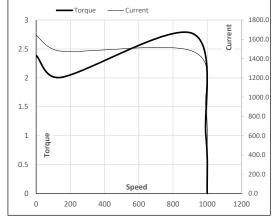
Load Point		NL	1/4FL	1/2FL	3/4FL	FL	5/4FL
Current	А	107.9	120.4	159.5	199.3	248.8	
Torque	Nm	0.0	312.2	625.6	940.1	1256.0	
Speed	r/min	1000	998	996	994	992	
Efficiency	%	0.0	92.0	95.0	96.0	96.0	
Power Factor	%	3.6	42.6	63.0	75.0	80.0	



Motor Speed Torque Data

Load Point		LR	P-Up	BD	Rated	NL	
Speed	r/min	0	143	913	992	1000	
Current	А	1642.3	1478.1	884.7	248.8	107.9	
Torque	pu	2.4	2.0	2.8	1	0	

Starting Characteristics Chart



NOTE Refer data sheet for applicable standard and tolerances on performance parameters

Issued By Issued Date

REGAL





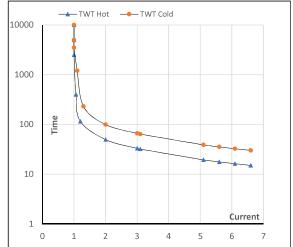
Model No. QCA1323A1121GAA001

Enclosure	U	Δ / Y	f	Р	Р	Ι	n	т	Т	IE	Amb	Duty	Elevation	Inertia	Weight
	(∨)	Conn	[Hz]	[kW]	[hp]	[A]	[rpm]	[kgm]	[Nm]	Class	[°C]		[m]	[kg-m ²]	[kg]
TEFC	400	Δ	50	132	175	248.8	992	128.08	1256.03	IE4	40	S1	1000	6.5064	1188

Motor Speed Torque Data

Load		FL	I_1	I ₂	l ₃	I_4	I ₅	LR
TWT Hot	s	10000	50	33	25	20	18	15
TWT Cold	s	10000	99	66	45	40	36	30
Current	pu	1	2	3	4	5	5.5	6.6

Thermal Characteristics Chart



NOTE Refer data sheet for applicable standard and tolerances on performance parameters

Issued By Issued Date

REGAL